

**To:** Dunkelman, Tom[Dunkelman.Tom@epa.gov]  
**Cc:** Moxley, Bret[Moxley.Bret@epa.gov]; Robberson, Bill[Robberson.Bill@epa.gov]  
**From:** Nattis, Randy  
**Sent:** Fri 8/14/2015 6:00:02 AM  
**Subject:** Re: Lake Powell Sampling Strategy

Tom, your situation sounds terrible. I'm willing to sub you out to help ease the suffering. If not, please take a nice sunset picture over the lake for me.

Otherwise, plan looks sound. We'll ensure we get some CICs out to Navajo mtn chapter.

Have fun and always wear your PDF.

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On Aug 13, 2015, at 10:57 PM, Dunkelman, Tom <[Dunkelman.Tom@epa.gov](mailto:Dunkelman.Tom@epa.gov)> wrote:

Would appreciate any input.

Today I sent START to Clay Hills Crossing to sample (about 30 miles downstream from Mexican Hat). Previously, I had been told that Mexican Hat was our furthest downstream location - Although I just noticed on the R9 EPAOSC web site sample location map that perhaps this location had been sampled once previously.

Starting tomorrow afternoon we (two STARTS and either Bill or myself) will deploy by boat to sample Lake Powell focusing on San Juan Arm, although we are planning to sample at a few locations along the way. Due to significant travel distance this will require at least one overnight. Travel distance is at least 60 miles one way by boat. NPS is providing the vessel – I told them I believed we could reimburse them for vessel and operator costs.

Will overnight at Dangling Rope marina, and use this as a base for sampling San Juan Arm. Sampling locations within San Juan Arm were based on nearby Navajo Chapters (Navajo Mountain Chapter), and other locations recommended by NPS (based on location of delta at river/lake interface). According to NPS, the Navajo Mountain Chapter has been requesting sampling. There are people living directly on the river/lake here. Also according to NPS the Navajo Mountain Chapter is often overlooked by NN, so they thought it important to sample here. I told NPS that OSCs in Farmington could coordinate with NN. USGS has a “Sentinel” sampling location on the San Juan Arm that it has sampled for years. We will try to sample at this location as well.

Sampling in Lake Powell will primarily be a surface water grab and a sediment grab, from nearshore locations. START is supposed to have a multidepth water sampler being delivered tomorrow, but I will believe it when I see it. If it comes, we will try to sample multiple depths.

USGS and BOR have a long planned sampling expedition scheduled to start next Wednesday or Thursday. This program, involves sampling most of the lake and they will be on the water for 1-2 weeks. The purpose is to evaluate mercury contamination in water column and sediment. I believe we could either ask them to expand their analyte list to include analytes related to Gold King. It might also be possible/necessary to send along an EPA sampler. The timing of this event seems fortuitous and I think we should try to take advantage of it. It is likely they would ask for funding to support this mission.